PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P00035670-P0				FOR FURTHER ACTION See Form PCT/IPEA/416		See Form PCT/IPEA/416			
International application No.				International filing da	te (day/month/year)	Priority date (day/month/year)			
PCT/JP2004/016971				16.11.200	4	05.01.2004			
International Patent Classification (IPC) or national classification and IPC									
H02P7/63, 7/00									
1021 77 037 77 00									
Applicant									
MAT	MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.								
					•				
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2.	This R	EPORT consists	of a total of	4	sheets, including	g this cover sheet.			
3.	This re	eport is also accor	mpanied by Al	NNEXES, comprising:					
	a. 🔀	(sent to the	applicant and	to the International Bu	reau) a total of 3	sheets, as follows:			
		sheets	of the descrip	tion, claims and/or dra	wings which have been	amended and are the basis for this report and/or			
	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
		Box.		11	,				
	ь.	(sent to the	International I	Bureau only) a total of	(indicate type and numbe	er of electronic carrier(s))			
	containing a securopea listing and/on tables								
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	This re	eport contains ind	lications relatio	ng to the following iter	ns:				
	\boxtimes	Box No. I	Basis of the	report					
		Box No. II	Priority						
		Box No. III	Non-establis	shment of opinion with regard to novelty, inventive step and industrial applicability					
		Box No. IV	Lack of unit	y of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
		Box No. VI	Certain docu	uments cited					
	Box No. VII Certain defects in the international application								
		Box No. VIII	II Certain observations on the international application						
Date of	submiss	ion of the demand	d		Date of completion of th	is report			
					or the	<u>k</u>			
Name and mailing address of the IPEA/JP					Authorized officer				
		-							
Faccimila No.					Talanhana Na				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/016971

Box	x No. I		Basis of the report					
1.	1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.							
	This report is based on translations from the original language into the following which is the language of a translation furnished for the purposes of:							
		international search (Rule 12.3 and 23.1(b))						
		<u> </u>	ublication of the international application (Rule 12.4	4)				
		L i	nternational preliminary examination (Rule 55.2 and	/or 55.3)				
2.	rece	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
		the inte	ernational application as originally filed/furnished					
	\boxtimes	the des	cription:					
		pages	1,3-9			as originally filed/furnished		
		pages*	_2,2/1	received by this Authority on	28.09	.2005		
		pages*		received by this Authority on				
	\boxtimes	the clai	ms:					
		nos.	2-4,6-14			as originally filed/furnished		
		nos.*						
		nos.*	1					
		nos.*						
	\boxtimes	the dra		- , ,				
		sheets	Fig. 1-6			as originally filed/furnished		
		sheets*						
		sheets*		•				
		a seque	ence listing and/or any related table(s) – see Supplem	nental Box Relating to Sequence I	∠isting.			
3.	\boxtimes	The arr	nendments have resulted in the cancellation of:					
		L tl	he description, pages					
		tl	he claims, nos. 5			_		
		L ti	he drawings, sheets/figs					
		L tl	he sequence listing (specify):					
		□ a	ny table(s) related to sequence listing (specify):					
4.			port has been established as if (some of) the amendave been considered to go beyond the disclosure as fi					
		L tl	he description, pages					
		L tl	he claims, nos.					
		☐ tl	he drawings, sheets/figs					
		tl	he sequence listing (specify):					
	any table(s) related to sequence listing (specify):							
*	If ite	em 4 app	lies, some or all of those sheets may be marked "sup	erseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. S	Statement					
	Novelty (N	N)	Claims	1-4, 6-14	YES	
			Claims		NO	
	Inventive s	step (IS)	Claims	1-4, 6-14	YES	
			Claims		_ NO	
	Industrial	applicability (IA)	Claims	1-4, 6-14	YES	
			Claims		NO	

2. Citations and explanations (Rule 70.7)

The following documents were cited in the international search report:

Document 1: JP 2002-44958 A

Document 2: JP 6-351258 A

Document 3: JP 11-27953 A

Document 1 sets forth an AC-DC converter, and indicates that regenerated energy generated by the regeneration operation of the motor is returned to the inverter and converter side.

Documents 2 and 3 set forth DC power supplies for an inverter apparatus, wherein a separate capacitor is connected in parallel to a capacitor via a diode.

However, documents 1 to 3 neither disclose nor suggest the main feature of the invention set forth in claim 1 of this application, which is an motor drive inverter control apparatus, wherein said apparatus is provided with a first capacitor which is connected in parallel with the output of the rectifier circuit, and a second capacitor which is connected in parallel to the aforementioned first capacitor via a diode; the capacity of the first capacitor is such that the ripple content of

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the input voltage of the aforementioned inverter circuit is 90% or more in the actual working range when driving the aforementioned motor; and the regenerated energy of the motor is absorbed by the aforementioned first capacitor and the aforementioned second capacitor.

Therefore the invention set forth in claim 1 is novel and involves an inventive step.

In addition, the invention set forth in claims 2 to 4 and 6 to 14 refers back to claim 1, further delimiting said claim, and similarly is novel and involves an inventive step.

The invention set forth in claims 1 to 4 and 6 to 14 is obviously industrially applicable.